

5.2 Writing Linear Equations Given the Slope and a Point

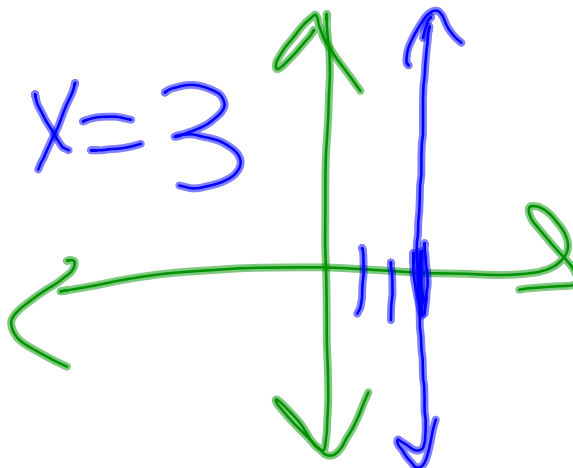
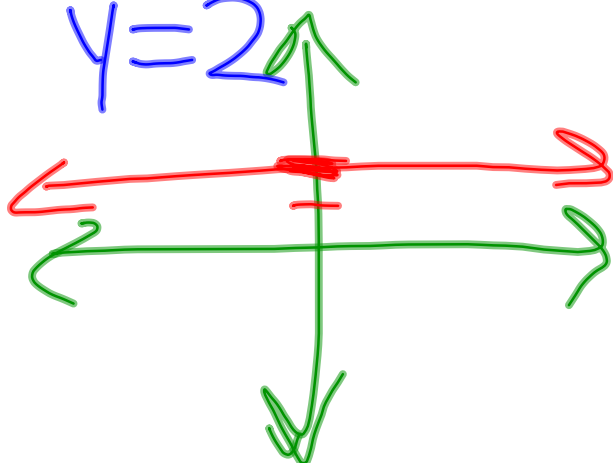
If you know the slope of a line and a point on the line, how to do write the equation of the line in slope-intercept form?

How do you write the equation of a vertical line?


$$y = 0x + 2$$

How do you write the equation of a horizontal line?

$$y = 2$$



Write the equation of a line in slope intercept form:

1.  $(-2, -1), m = -3$
2. $(-3, 0), m = 1/3$
3. $(6, 7), m = 0$
4. $(2, -5), m = \text{undefined}$



Write the equation of a line that is parallel to the line $y = -\frac{1}{4}x + 2$ and passes through the point $(3, -2)$

|| m's are the same

$$m = -\frac{1}{4}$$
$$(3, -2)$$

WORK TIME in PARTNERS:

Do page 282 #12 - 40 EVEN
and #42 - 49

TICKET OUT THE DOOR
COMPLETE INDEPENDENTLY